

Title (en)

Ink-jet recording head and method for producing the same

Title (de)

Tintenstrahlaufzeichnungskopf und dazugehöriges Herstellungsverfahren

Title (fr)

Tête jet d'encre et procédé pour sa fabrication

Publication

EP 1375151 A1 20040102 (EN)

Application

EP 03013941 A 20030620

Priority

JP 2002187595 A 20020627

Abstract (en)

A cavity unit, which has an increased/decreased number of nozzles (pressure chambers), can be easily manufactured by merely stacking minimum plate units each comprising common elements including a nozzle, a pressure chamber, and a common ink chamber. An arbitrary number of first plates 40, each of which includes common elements of a nozzle 43, a pressure chamber 44, a common ink chamber 42, an ink supply flow passage 45, and an ink flow passage 46, are stacked and joined in a direction of arrangement of the pressure chambers 44. A piezoelectric actuator 2 is placed thereon and joined so that portions of the pressure chambers 44, which are open on first side end surfaces of the first plates 40, are covered therewith. <IMAGE>

IPC 1-7

B41J 2/14; **B41J 2/145**

IPC 8 full level

B41J 2/045 (2006.01); **B41J 2/055** (2006.01); **B41J 2/14** (2006.01); **B41J 2/145** (2006.01)

CPC (source: EP US)

B41J 2/14209 (2013.01 - EP US); **B41J 2/145** (2013.01 - EP US)

Citation (applicant)

- JP 2001246744 A 20010911 - BROTHER IND LTD
- US 2001020968 A1 20010913 - ISONO JUN [JP], et al

Citation (search report)

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- [A] US 4387383 A 19830607 - SAYKO STEVEN P
- [A] PATENT ABSTRACTS OF JAPAN vol. 004, no. 125 (M - 030) 3 September 1980 (1980-09-03)

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